

What is in our solar system?

| Vocabulary | Definition |
|----------------|--|
| solar system | The Sun, planets, moons and smaller bodies. |
| star | A huge, bright ball of burning gas that is held together by gravity. |
| axis | The imaginary straight line on which a planet rotates. |
| orbit | When one body of matter spins around another |
| rotate | When a planet moves about its axis |
| planet | A massive body of matter orbiting a star |
| celestial body | A natural body outside of the Earth's atmosphere |
| spherical body | A body in space which is round due to its gravitational force pulling everything to the centre, creating a sphere. |

The solar system



Made up of the Sun and everything that orbits around it

8 planets- Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune.

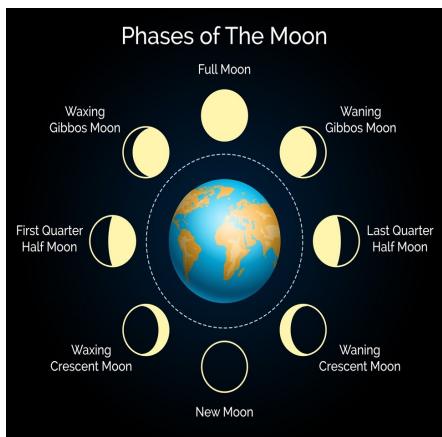
- Dwarf planets
- Moons
- Smaller objects- asteroids and comets

How do planets orbit the Sun?



- All planets orbit the sun due to its huge gravitational pull
- It takes Earth 365 days (one year) to complete one orbit.

The moon and its phases



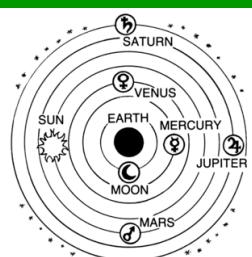
- The moon orbits Earth
- Natural satellite.
- 27.3 days to orbit Earth
- The Moon reflects the sun's light at different angles .
- The part of the Moon we see depends on where the Moon is when orbiting Earth

Day and night



- The Earth rotates about its axis once every 24 hours
- Facing the sun- daytime
- Facing away from the sun- night time.

Theories of the solar system



- Different ideas about the solar system change over time
- Geocentric and Heliocentric
- Ptolemy, Copernicus and Kepler